

Work Order ID 148894

Tuesday, July 12, 2016 8:53:35 AM

148894

Page 1

Item ID: D4434-045 Accept ***N900040100*** Setup Start ***NS1***
Revision ID: Stop ***NS2***
Item Name: Fwd Outboard Bracket Assembly
Start Date: 7/6/2016 Start Qty: 2.00 *?
Required Date: 7/12/2016 Req'd Qty: 2.00 *?
Reference: Cust Item ID:
Customer:

Approvals: Process Plan: DAS 21 9-89 Date: 1607-13 Tooling: _____ Date: _____ Run Start ***NR1***
QC: _____ Date: _____ SPC (Y/N): _____ Date: _____ Stop ***NR2***

Sequence ID/ Work Center ID	Operation Description	Set Up/ Run Hours	Tool ID	Tool #	Plan Code	Accept Qty	Reject Qty	Reject Number	Insp. Stamp
Draw Nbr	Revision Nbr								
D4434	C								

100

0.00

100

Small Fab.

Memo

0.12

Small Fab

Assemble cover and bracket together as per dwg (SEE NOTE 9)

2 FF AUG 12 2016

110

QC5- Inspect part completeness to step on W/O

0.00

110

QC

Memo

0.01

Quality Control

(2) DAS 38 9-89 AUG 12 2016

DQA: _____ Date: _____

WORK ORDER NON-CONFORMANCE / UPDATE



QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____	DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐	AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐			
Date : _____	Step #: _____	QTY Effective : _____		MRB (QSI042) Approval	
Description Work Order Deviation		Disposition			
8705 51 QUA				Completed By	
				Lead hand / Supervisor Approval Verification	
				QC / QA Coordinator Approval	
Root Cause Environment ☐ Design ☐ Doc/Data ☐ Equip/Tooling ☐ Handling/Pre ☐ Material ☐ Internal Transport ☐ Tribal Knowledge ☐ LOA ☐ Substation ☐ Past Expiry Date ☐ Misidentified ☐ No Re-verification ☐ Operator ☐ Offset/Setup ☐ Supplier ☐ Training ☐ Use for Testing ☐ Poor Information ☐ Rushing ☐ Product Improvement ☐ Process Improvement ☐ Manufacturing Process ☐ Past Due ☐		FAULT CATEGORY Pressure/Forced ☐ Bending ☐ Centre Not Concentric ☐ Cracks ☐ Crimp/Kink/Ripple/Wave ☐ Cuffs ☐ Crushing ☐ Heat Treat ☐ Wave/Twist in Tube ☐ Marks/Chatter ☐ Temperature/Cure ☐ Set-up ☐ BOM/Route ☐ Broken/Damage/Defect ☐ Inspection Incomplete/Unqualified ☐ Contamination ☐ Countersink ☐ Cut Too Short ☐ Instructions Incomplete/Unclear ☐ Drill Holes ☐ Power Loss/Surge ☐ Folio/Program ☐ Grain ☐ Weld ☐ Wrong Stock Pulled ☐ Out of Sequence ☐ Off-set ☐ Misabeled ☐ Fit/Function ☐ Misaligned/off center ☐ Positioned Wrong ☐ Outside Dimensions ☐ Over/Under tolerance ☐ Part Incorrect ☐ Part Lost/Missing ☐ Part Moved ☐ Drawing ☐ Finish ☐ Misread ☐ Turning Sequence ☐			
OTHER : _____					

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Page 2

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Required Date: 7/12/2016 Req'd Qty: 2.00 ***2*** Customer:
Reference:

Approvals: Process Plan: _____ Date: _____ Tooling: _____ Date: _____ Run Start ***NR1***
QC: _____ Date: _____ SPC (Y/N): _____ Date: _____ Stop ***NR2***

Sequence ID/ Work Center ID	Operation Description	Set Up/ Run Hours	Tool ID	Tool #	Plan Code	Accept Qty	Reject Qty	Reject Number	Insp. Stamp
120 *120* Powdercoat Powder Coating	Black Sandtex(Ref:4.3.5.7) per OSI005 4.3 <i>M 124777</i> Memo *** MASK NUT PLATE HOLES AS PER DWG *** START TIME: <i>1:50</i> OVEN TEMPERATURE: <i>300°</i> FINISH TIME: <i>2:06</i>	0.00 0.02				<i>2</i>	<i>0</i>	<i>16-08-29</i>	<i>33 9:09</i>
130 *130* QC Quality Control	QC3- Inspect Part Finish Memo	0.00 0.00				<i>(2)</i>			<i>DAS 38 9:09</i> <i>AUG 30 2016</i>
140 *140* Small Fab Small Fab	Install rubber seal as per dwg A/R 3M 1300 ADHESIVE BATCH: <i>M 134871</i>	0.00 0.06				<i>2</i>	<i>FF</i>	<i>AUG 31 2016</i>	

DQA: _____ Date: _____

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Work Order update only ☐

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DQA: _____ Date: _____

**WORK ORDER NON-CONFORMANCE / UPDATE**

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____		DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐		AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐					
Date :		Step #:		QTY Effective :			MRB (QSI042) Approval Completed By _____ Lead hand / Supervisor Approval Verification _____ QC / QA Coordinator Approval _____		
Description Work Order Deviation				Disposition					

Root Cause				FAULT CATEGORY			
Environment ☐	Design ☐	Doc/Data ☐	Equip/Tooling ☐	Pressure/Forced ☐	Temperature/Cure ☐	Power Loss/Surge ☐	Positioned Wrong ☐
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				OTHER : _____			

Picklist Print

Tuesday, July 12, 2016 8:53:35 AM

Page 1

Work Order ID: 148894

148894

Parent Item: D4434-045

D4434-045

Parent Item Name: Fwd Outboard Bracket Assembly

Start Date: 7/6/2016

Required Date: 7/12/2016

Start Qty: 2.00

Required Qty: 2.00

Comments: IPP revA 11.10.06 new issue EC verified by:DD IPP RevB
11.12.22 per PA5 EC verified by:JLM IPP RevC 12.01.24 per
REV.A DD verified by:EC IPP RevD 12.03.05 per REV.B
DD verified by:EC IPP REV:E 13.04.01 AS PER D4434 REV.C
DD VERF:JLM

Component Item ID/ Item Name	Replacement Item ID	Mfg/ Purch	Bin Item	Primary Location	Last Location	Route Seq ID	Unit of Measure	Qty on Hand	Qty per Kit	Total Qty	Qty Issued	Date Issued	Status
D4434-3 *D4434-3* Bracket		Manufactured	No			100	Each	4.0000	1	2			
									**			FF	AUG 12 2016
					<u>Location</u>			<u>Loc Qty</u>		<u>Loc Code</u>			
					GA			4					
					<u>146941</u>			4		<u>2</u>			
D4434-5 *D4434-5* Bracket		Manufactured	No			100	Each	4.0000	1	2			
									**			FF	AUG 12 2016
					<u>Location</u>			<u>Loc Qty</u>		<u>Loc Code</u>			
					ST613			4					
					<u>143422</u>			4		<u>2</u>			
D4441-1 *D4441-1* Rubber Seal		Manufactured	No			100	f	391.5960	0.5	1			
									**			FF	AUG 31 2016
					<u>Location</u>			<u>Loc Qty</u>		<u>Loc Code</u>			
					ST422			391.596					
					<u>120932</u>			391.596		<u>1</u>			

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Picklist Print

Tuesday, July 12, 2016 8:53:35 AM

Page 2

Work Order ID: 148894

148894

Parent Item: D4434-045

D4434-045

Parent Item Name: Fwd Outboard Bracket Assembly

Start Date: 7/6/2016

Required Date: 7/12/2016

Start Qty: 2.00

Required Qty: 2.00

MS20426AD4-4

Purchased

No

100

Each

4,355.000

6

12

MS20426AD4-4

FF AUG 12 2016

Rivet

Location

Loc Qty

Loc Code

GA

1936

125445

1936

ST312

2419

m132536

2419

12

DQA: _____ Date: _____

WORK ORDER NON-CONFORMANCE / UPDATE

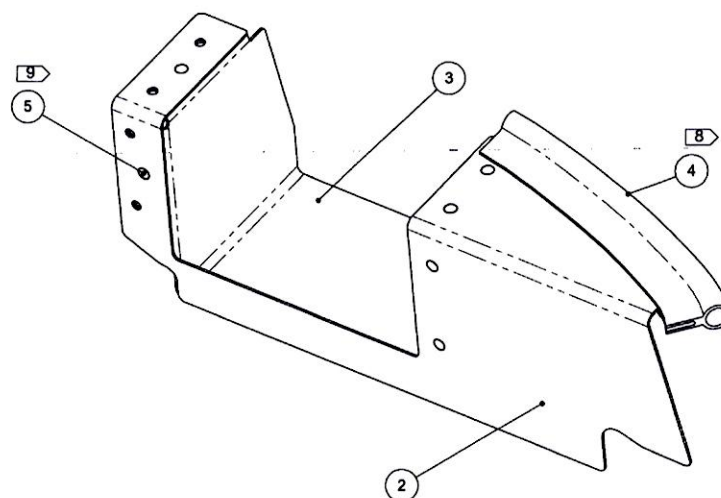


QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____	DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐	AGAINST DEPARTMENT/PROCESS <table style="width: 100%; border: none;"> <tr> <td style="border: none;">Skid-tube ☐</td> <td style="border: none;">Cross tube ☐</td> <td style="border: none;">Water Jet ☐</td> <td style="border: none;">Engineering ☐</td> </tr> <tr> <td style="border: none;">Machining ☐</td> <td style="border: none;">Small Fab ☐</td> <td style="border: none;">Prod. Eng. Coord. ☐</td> <td style="border: none;">Quality ☐</td> </tr> <tr> <td style="border: none;">Thermoforming ☐</td> <td style="border: none;">Finishing ☐</td> <td style="border: none;">Rec/Store/Packaging ☐</td> <td style="border: none;">Other ☐</td> </tr> <tr> <td style="border: none;">Large Fab ☐</td> <td style="border: none;">Composite ☐</td> <td style="border: none;">Supplier ☐</td> <td></td> </tr> </table>				Skid-tube ☐	Cross tube ☐	Water Jet ☐	Engineering ☐	Machining ☐	Small Fab ☐	Prod. Eng. Coord. ☐	Quality ☐	Thermoforming ☐	Finishing ☐	Rec/Store/Packaging ☐	Other ☐	Large Fab ☐	Composite ☐	Supplier ☐																																															
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ITEM	QTY -045	PART NUMBER	DESCRIPTION
1	X	D4434-045	FWD OUTBOARD BRACKET ASSEMBLY
2	1	D4434-3	BRACKET
3	1	D4434-5	BRACKET
4	1	D4441-1-060	RUBBER SEAL
5	6	MS20426AD4-4	RIVET
6	A/R	3M 1300/1300L	ADHESIVE



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WITHOUT NOTICE
WORK ORDER
NO. 148894 MJS
160713

D4434-045 FWD OUTBOARD BRACKET ASSEMBLY

RELEASED
2014-03-31

NOTES:

- 1) MATERIAL: N/A
- 2) FINISH: POWDER COAT "BLACK SANDTEX" (4.3.5.7) PER DART QSI 005 4.3
MASK NUT PLATE HOLES
- 3) TOLERANCES: PER DART QSI 018 UNLESS OTHERWISE NOTED
- 4) UNITS: INCHES UNLESS OTHERWISE NOTED
- 5) BREAK SHARP EDGES: 0.005 TO 0.010 MAX
- 6) IDENTIFICATION: N/A
- 7) WEIGHT: 0.38 lbs
- 8) INSTALL RUBBER SEAL TO EDGE OF PART AFTER POWDER COAT USING 3M 1300/1300L ADHESIVE
ENSURE BRACKET IS COMPLETELY INSERTED INTO GROOVE OF RUBBER SEAL
IT IS ACCEPTABLE TO NOTCH THE SEAL AS REQUIRED TO PREVENT IT FROM BUCKLING
- 9) TRANSFER $\phi 0.129$ HOLE 6 PLACES AND CSK TO $\phi 0.225 \times 100^\circ$

APPROVED

DESIGN	RF	DART AEROSPACE LTD	
DRAWN	RF	HAWKESBURY, ONTARIO, CANADA	
CHECKED	DC	DRAWING NO. D4434	REV. C
MFG. APPR.	DD	SHEET 4 OF 15	
APPROVED	HS	TITLE	SCALE
DE APPR.	DS	COVER ASSEMBLY	NTS
DATE	14.03.06	COPYRIGHT © 2012 BY DART AEROSPACE LTD THIS DOCUMENT IS PRIVATE AND CONFIDENTIAL AND IS SUPPLIED ON THE EXPRESS CONDITION THAT IT IS NOT TO BE USED FOR ANY PURPOSE OR COPIED OR COMMUNICATED TO ANY OTHER PERSON WITHOUT WRITTEN PERMISSION FROM DART AEROSPACE LTD.	